



CITY OF SUGAR LAND

Engineering Department

CIP Project Number: DR0803

Title: Sugar Mill Drainage Improvements

Project Phase: Design

% of Phase Completion



Cost for this Phase: \$ 150,000

Funding Sources: CO's

Project Manager: Shashi Kumar, P.E.

Contractor: TBD

Consultant: TCB/AECOM

Project Description:

This project includes the design of drainage improvements that are required to alleviate structural flooding and excessive street ponding within the Sugar Mill Subdivision during severe localized rain events.

Justification: In CIP DR0606 funding has been allocated to modify/relocate restrictor in Ditch A-22. As part of the ongoing study, problem areas have been identified & potential improvements to mitigate flooding conditions are being finalized. Funding requested here is for the design of future improvements. Since construction costs are not available at this time, funding is only being requested for design.

Updates: December 2008- The design contract was awarded to TCB, Inc. (AECOM) on August 5, 2008. Evaluation of project impacts on downstream channels (hydrologic and hydraulic analysis) is complete. Survey work for the project is also complete. Easement identification/acquisition necessary for the project is currently underway..

February 2009- The H&H recommendations (report) was delivered. Based on these recommendations slight changes to the scope and timing/ phasing of construction will likely occur. The 30% plans for proposed A-22 Ditch Improvements were reviewed with the City Management and District Council Member. Preparation of cost estimates, final plans, and contract specifications are currently underway.

March 2009- 30% plans and comments were submitted for review and comment. Cost estimates (for construction) for inclusion in FY10 CIP were also provided.

June 2009: The original scope of design included the design of two (North and South) relief sewers to alleviate flooding in sections 2 and 3 of Sugar Mill along with Ditch A-22 improvements to reduce ponding. The “South” relief system (out falling to Cleveland Lake) is being deferred to a future year pending completion of the Ditch H extension project and the update to Oyster Creek floodplain maps. The other part of the project is moving forward. Construction funding has been requested for FY-2010.

July 2009- A workshop was held to discuss the applicability of Articulated Concrete Blocks (ACB’s) for use in lining the proposed Ditch A-22 pilot channel. 60% plans are expected in August 2009. Also, a meeting is proposed with the Sugar Mill HOA next month to discuss easement issues for the project and potential cost participation for future landscaping along Ditch A-22.

August 2009-

Awaiting 60% plans – no more updates to report.

September 2009- 70% design plans were submitted for review. Engineering staff to approach Sugar Mill HOA to dedicate easements to facilitate construction of outfall pipes.

December 2009 –

A field visit was performed with the design team and construction management team to identify constructability issues. Finals plans (100 %) are expected to be ready in January, 2010. Authorization to move forward with a “friendly” eminent domain process to acquire easements necessary to install new storm sewers is being placed before Council for authorization on 12/15/09. The Sugar Mill HOA Board had already approved the City’s request to dedicate necessary easements thru a “friendly” eminent domain process.

January 2010 –

Final design is expected to be completed in January 2010. Easement acquisition is expected to be completed by February 2010, so that construction can begin in early spring.

March 2010 –

Design is 100% complete. Necessary easements have been acquired to facilitate construction. Waiting on City Council authorization to move forward with advertisement and bidding, which is expected on 3/23/2010.

